

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

'NOTICE OF ALLOWANCE AND FEE(S) DUE

08791 7	590 08/13/2002					
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR				EXAMINER NGUYEN, TUAN H		
LOS ANGELES, CA 90025			ART UNIT	CLASS-SUBCLASS		
					2813	438-678000
				DAT	E MAILED: 08/13/2002	
APPLICATION NO.	FILING DATE	FIRST N	AMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,256	12/28/2000	Va	lery M. Dubin		42390P10254	8791
TITLE OF INVENTION: N	METHOD OF ELECTROLES	S INTRODUCTION OF	INTERCONNECT STRUCT	URES		
(
1						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE		TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$300		\$1580	11/13/2002

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
- A. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or
- B. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
 - □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents

Washington, D.C. 20231

(703)746-4000 <u>Fax</u>

appropriate. All further corr indicated unless corrected b maintenance fee notification	espondence including the elow or directed otherwises.	Patent, advance orders e in Block 1, by (a) sp	s and notification of secifying a new con	f maintenance fe respondence add	required). Blocks I through 4 si tes will be mailed to the current ress; and/or (b) indicating a sepa	correspondence address a rate "FEE ADDRESS" fo
08791 7590 08/13/2002 BLAKELY SOKOLOFF TAYLOR & ZAFMAN				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.		
	BOULEVARD, SEV			I hereby certify United States Po envelope address transmitted to the	Certificate of Mailing or Trans that this Fee(s) Transmittal is stal Service with sufficient postagesed to the Box Issue Fee address e USPTO, on the date indicated by	being deposited with the ge for first class mail in an above, or being facsimile
			٦			(Depositor's name
			<u> </u>			(Signature
						(Date
APPLICATION NO.	FILING DATE	FIR	ST NAMED INVENTO	OR .	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,256	12/28/2000		Valery M. Dubin		42390P10254	8791
APPLN. TYPE	SMALL ENTITY NO	ISSUE FEE \$1280		ATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisionar	110	\$1200	•		ψ1300	11/13/2002
EXAMIN	ER	ART UNIT	CLASS-SUBCLA	.SS		
NGUYEN, T	UAN H	2813	438-678000			
1. Change of correspondence CFR 1.363).	ce address or indication of	·	2. For printing of the names of up or agents OR, al	to 3 registered p	patent attorneys	
Address form PTO/SB/12	2) attached.	Correspondence	single firm (hav			
☐ "Fee Address" indication PTO/SB/47; Rev 03-02 on Number is required.	on (or "Fee Address" Indica r more recent) attached. Us	ation form se of a Customer	registered patent is listed, no name	attorneys or age		
3. ASSIGNEE NAME AND PLEASE NOTE: Unless ar been previously submitted t (A) NAME OF ASSIGNEE	assignee is identified beloo the USPTO or is being s	ow, no assignee data w ubmitted under separate	ill appear on the pa	tent. Inclusion of of this form is N	f assignee data is only appropriate OT a substitute for filing an assign COUNTRY)	e when an assignment has nment.
Please check the appropriate	assignee category or categ	ories (will not be printe	d on the natent)	□ individual	□ corporation or other private gr	oun entity. Digovernment
ta. The following fee(s) are e		•	yment of Fee(s):	- marvidadi	a corporation of other private gr	oup ontity - government
☐ Issue Fee			heck in the amount o	f the fee(s) is en	closed.	
☐ Publication Fee		☐ Pay	ment by credit card.	Form PTO-2038	is attached.	
☐ Advance Order - # of Co	ppies		Commissioner is he it Account Number		by charge the required fee(s), or c (enclose an extra copy of this f	
Commissioner for Patents is	requested to apply the Issu	e Fee and Publication F	ee (if any) or to re-a	pply any previou	usly paid issue fee to the application	on identified above.
Authorized Signature)		(Date)				*· • · · ·
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	registered attorney or as ords of the United States P	gent; or the assignee of atent and Trademark O	or other party in office.		•	
This collection of informat obtain or retain a benefit be application. Confidentiality estimated to take 12 minute completed application form case. Any comments on usuggestions for reducing the Patent and Trademark Offin	ion is required by 37 CFI by the public which is to is governed by 35 U.S.C. is to complete, including and the USPTO. Time whe amount of time you is burden, should be sent ce, U.S. Department of CCCOMPLETED FORMS Washington, DC 20231.	R 1.311. The informati- file (and by the USPT 122 and 37 CFR 1.14. ' athering, preparing, an ill vary depending uporequire to complete to to the Chief Information mmerce, Washington, TO THIS ADDRES	on is required to O to process) an This collection is do submitting the on the individual his form and/or ion Officer, U.S. D.C. 2023 I. DO SS. SEND TO:			

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



United States Patent and Trademark Office



APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/753,256	12/28/2000	Valery M. Dubin	42390P10254 8791		
08791	7590 08/13/2002		EXAMIN	ER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025			NGUYEN, TUAN H		
		NIH FLOOR	ART UNIT	PAPER NUMBER	
			2813		
		1	DATE MAILED: 08/13/2002		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 0 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 0 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Www.uspto.gov

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09/753,256	12/28/2000	Valery M. Dubin	42390P10254 8791		
08791	7590 08/13/2002		EXAMIN	ER	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD, SEVENTH FLOOR LOS ANGELES, CA 90025 UNITED STATES			NGUYEN, TUAN H		
		ENTH FLOOR	ART UNIT	PAPER NUMBER	
		_	2813		
		D	DATE MAILED: 08/13/2002		

Notice of Fee Increase on October 1, 2002

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2002, then the amount due may be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on October 1, 2002. See Revision of Patent and Trademark Fees for Fiscal Year 2003: Notice of Proposed Rulemaking, 67 Fed. Reg. 30634, 30636 (May 7, 2002). Although a change to the amount of the publication fee is not currently proposed for October 2002, if the issue fee or publication fee is to be paid on or after October 1, 2002, applicant should check the USPTO web site for the current fees before submitting the payment. The USPTO Internet address for the fee schedule is: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after October 1, 2002 (or mailed with a certificate of mailing on or after October 1, 2002), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Effective October 1, 2002, 37 CFR 1.18 is proposed to be revised to change the patent issue fees as set forth below. As stated above, the final fees may be a different amount, and applicant should check the web site given above when paying the fee.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

By a small entity (Sec. 1.27(a))--\$655.00 By other than a small entity--\$1,310.00

(b) Issue fee for issuing a design patent:

By a small entity (Sec. 1.27(a))--\$235.00 By other than a small entity--\$470.00

(c) Issue fee for issuing a plant patent:

By a small entity (Sec. 1.27(a))--\$315.00

By other than a small entity--\$630.00

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



Notice of Allowability

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Application No.	Applicant(s)	
09/753,256	DUBIN ET AL.	
Examiner	Art Unit	
Tuan H. Nguyen	2813	

Notice of Allowability	Examiner	Art Unit	
	Tuan H. Nguyen	2813	
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS
1. X This communication is responsive to Amendment dated 7/	<u>15/02</u> .		
2. The allowed claim(s) is/are <u>1 and 4-24</u> .	•		
3. The drawings filed on <u>28 December 2000</u> are accepted by			
 Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	ler 35 U.S.C. § 119(a)-(d) or (f).		
1. ☐ Certified copies of the priority documents have	been received.		
2. Certified copies of the priority documents have	been received in Application No.	·	
3. Copies of the certified copies of the priority do	cuments have been received in this	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
5. Acknowledgment is made of a claim for domestic priority u		onal application).	
(a) The translation of the foreign language provisional a	• •		
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of			
7. A SUBSTITUTE OATH OR DECLARATION must be submINFORMAL PATENT APPLICATION (PTO-152) which gives reas			NOTICE OF
8. CORRECTED DRAWINGS must be submitted.			
(a) including changes required by the Notice of Draftsper	son's Patent Drawing Review (PTO	-948) attached	
1) hereto or 2) to Paper No			
(b) including changes required by the proposed drawing of	correction filed, which has be	een approved by the E	Examiner.
(c) \square including changes required by the attached Examiner	's Amendment / Comment or in the C	Office action of Paper	No
Identifying indicia such as the application number (see 37 CFR 1 of each sheet. The drawings should be filed as a separate paper	.84(c)) should be written on the drawir with a transmittal letter addressed to	ngs in the top margin (r the Official Draftsperso	not the back) on.
9. DEPOSIT OF and/or INFORMATION about the depoattached Examiner's comment regarding REQUIREMENT FOR T			Note the
Attachment(s)			
1☐ Notice of References Cited (PTO-892)		al Patent Application (·
3 Notice of Draftperson's Patent Drawing Review (PTO-948)		ary (PTO-413), Paper	No
5☐ Information Disclosure Statements (PTO-1449), Paper No 7☐ Examiner's Comment Regarding Requirement for Deposit		ndment/Comment ement of Reasons for .	Allowance
of Biological Material	9☐ Other .	anone of reasons for	

Application/Control Number: 09/753,256

Art Unit: 2813

Page 2

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the change's and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

This application is in condition for allowance except for the presence of claims 25-32 to an invention non-elected without traverse. Accordingly, claims 25-32 have been cancelled.

✓ In the title, delete: "Interconnect Structure and a".

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests the claimed method for forming an interconnect structure including the step of forming a conductive shunt structure adjacent the portion of the interconnect structure through a chemically-induced oxidation-reduction reaction comprising introducing a shunt material precursor in the present of an alkaline metal-free reducing agent.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Art Unit: 2813

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is 703-308-2550. The examiner can normally be reached on 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 703-306-2794. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Tuan H. Nguyen Primary Examiner Art Unit 2813

TN August 9, 2002